

POWERED BY **Dialog****BEST AVAILABLE COPY****NONAQUEOUS ELECTROLYTE BATTERY (2000-058125****Publication Number:** JP 2000058125 A) , February 25, 2000**Inventors:**

- NAKAHARA HIROSHI

Applicants

- JAPAN STORAGE BATTERY CO LTD

Application Number: 10-230017 (JP 98230017) , July 31, 1998**International Class:**

- H01M-010/40
- H01M-004/02
- H01M-004/58

Abstract:

PROBLEM TO BE SOLVED: To provide a battery superior in a high-temperature resistance characteristic and a voltage resistance characteristic by providing a power generating element having a positive electrode, a separator and a negative electrode and an electrolytic solution, and using a mixed solvent of vinylene carbonate, propylene carbonate and chain carbonic ester for the solvent of the electrolytic solution. **SOLUTION:** The composition of vinylene carbonate with respect to the entire solvent is set to A vol.%, the composition of propylene carbonate against the entire solvent is set to B vol.%, and the composition (A+B) of a mixed solvent of vinylene carbonate and propylene carbonate satisfies $10 \leq (A+B) \leq 50$, where $A \neq 0$ and $B \neq 0$. The composition of vinylene carbonate against the whole solvent is set to 3-20 vol.%. A positive electrode mix layer 1, a positive electrode current collector layer 2, an insulator layer 3 of an insulating material, a negative electrode current collector layer 4, a negative electrode mix layer 5 and a separator 6 are laminated in sequence to manufacture an electrode plate 20 constituting the power generating element of a nonaqueous electrolyte secondary battery. **COPYRIGHT:** (C)2000,JPO

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